

AMENDED IN SENATE MAY 27, 2014

AMENDED IN SENATE MAY 13, 2014

AMENDED IN SENATE MAY 7, 2014

AMENDED IN SENATE APRIL 22, 2014

## SENATE BILL

**No. 836**

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### **Introduced by Senator Corbett**

**(Coauthors: Senators Anderson, Beall, Block, Cannella, Correa, Evans, Galgiani, Hancock, Hill, Lara, Lieu, Liu, Nielsen, Roth, and Wolk)**

~~(Coauthor:)~~ *(Coauthors: Assembly Member Members Skinner and Waldron)*

January 6, 2014

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An act to add Chapter 15 (commencing with Section 92985) to Part 57 of Division 9 of Title 3 of the Education Code, relating to brain research.

#### LEGISLATIVE COUNSEL'S DIGEST

SB 836, as amended, Corbett. Brain research: Cal-BRAIN program.

Existing law establishes various health research grant programs, including the Cancer Research Program, the Breast Cancer Research Program, and the Spinal Cord Injury Research Program.

This bill, the California Blueprint for Research to Advance Innovations in Neuroscience (Cal-BRAIN) Act of 2014, would request the Regents of the University of California to establish the Cal-BRAIN program to leverage California's research assets and the federal BRAIN Initiative's funding opportunities to accelerate the development of brain mapping techniques, including the development of new technologies, in order to achieve certain goals. The bill would additionally request

the University of California to convene certain stakeholders to ~~administer~~ *develop a governing structure for* the Cal-BRAIN program *designed* to do specified tasks, and to provide information about the program through an Internet Web site. These provisions would only be implemented to the extent that adequate funding is appropriated to the University of California, as specified.

Vote: majority. Appropriation: no. Fiscal committee: no.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

- 1     SECTION 1. The Legislature hereby finds and declares all of  
2     the following:
- 3     (a) In April 2013, President Obama unveiled the Brain Research  
4     through Advancing Innovative Neurotechnologies (BRAIN)  
5     Initiative — a collaborative program that will map the activity of  
6     every neuron in the human brain with a programmed total  
7     investment of more than \$300 million per year over 10 years.
- 8     (b) The BRAIN Initiative is launching with approximately \$110  
9     million in funding for research in 2014, as well as additional private  
10    sector investment from institutes and foundations based in  
11    California.
- 12    (c) California is poised to be a world leader in this research  
13    effort given the prominent role of scientists and industry leaders  
14    throughout the state.
- 15    (d) Four of the six scientists who proposed the BRAIN Initiative  
16    and six of the 15 members of the Advisory Committee to the  
17    Director of the National Institutes of Health for the BRAIN  
18    Initiative are from California.
- 19    (e) Some California-based corporations have indicated they are  
20    interested in collaborating with brain research institutions on  
21    research for the BRAIN Initiative to bring new discoveries to the  
22    marketplace.
- 23    (f) The BRAIN Initiative has the potential to be a major driver  
24    of new industries and jobs in biotechnology, artificial intelligence,  
25    and information technologies, as well as a catalyst for major  
26    breakthroughs in brain-related diseases, injuries, and illnesses,  
27    including Alzheimer's disease, which is programmed to cost  
28    California over \$30 billion a year by 2030.

1 (g) The products of scientific research improve the quality of  
2 our lives and health and provide us with high-quality jobs that  
3 employ and demand a highly skilled workforce.

4 (h) Given California's assets and capacity for collaboration,  
5 entrepreneurship, and innovation, a state investment to expand and  
6 accelerate this research in the state and to promote the translation  
7 of breakthroughs into the marketplace is an important investment  
8 in the intellectual infrastructure for California's economic future.

9 SEC. 2. Chapter 15 (commencing with Section 92985) is added  
10 to Part 57 of Division 9 of Title 3 of the Education Code, to read:

11  
12 CHAPTER 15. THE CALIFORNIA BLUEPRINT FOR RESEARCH TO  
13 ADVANCE INNOVATIONS IN NEUROSCIENCE ACT OF 2014  
14

15 92985. This act shall be known, and may be cited, as the  
16 California Blueprint for Research to Advance Innovations in  
17 Neuroscience (Cal-BRAIN) Act of 2014.

18 92986. (a) The Regents of the University of California are  
19 requested to establish the Cal-BRAIN program to leverage  
20 California's vast research assets and the federal BRAIN Initiative's  
21 funding opportunities to accelerate the development of brain  
22 mapping techniques, including the development of new  
23 technologies, which will create new, high-paying jobs in California  
24 while advancing patient care and improving lives, in order to  
25 achieve the following goals:

26 (1) Maintain California's leadership role in neuroscience  
27 innovation.

28 (2) Develop a dynamic map of the human brain that provides  
29 researchers, physicians, and engineers with the knowledge  
30 necessary to develop new treatments and technologies that will  
31 improve lives and reduce the costs of providing health care.

32 (3) Grow California's economy through the expansion of  
33 California's high technology and biotechnology sectors.

34 (4) Train the next generation of scientists for the neuroscience  
35 and engineering jobs of the future.

36 (b) The University of California is requested to utilize  
37 California's unique collaborative research environment by  
38 convening stakeholders from public and private research  
39 institutions, national laboratories, biotechnology and high

1 technology companies, and venture capital firms to administer the  
2 Cal-BRAIN program to do all of the following:

3 ~~(1) Develop~~ *develop* the governing structure ~~of~~ *for* the  
4 Cal-BRAIN program.

5 *(c) The governing structure shall be designed to do all of the*  
6 *following:*

7 ~~(2)~~

8 *(1)* Adopt a research plan that identifies milestones for achieving  
9 the goals of the Cal-BRAIN program.

10 ~~(3)~~

11 *(2)* Establish competitive, merit-based opportunities for  
12 interested public and private California research institutions and  
13 national laboratories to apply for Cal-BRAIN program funding.

14 ~~(4)~~

15 *(3)* Maintain the flexibility to adjust the Cal-BRAIN program's  
16 priorities and focus based upon knowledge gained from scientific  
17 discoveries.

18 ~~(5)~~

19 *(4)* Establish a technology transfer program to identify and  
20 accelerate the commercial application of both early and late-stage  
21 discoveries and technologies from the Cal-BRAIN program into  
22 the marketplace and to promote new and expanded technology  
23 sectors in the state.

24 ~~(6)~~

25 *(5)* Solicit contributions to the Cal-BRAIN program with a goal  
26 of achieving a nonstate funding match that meets or exceeds the  
27 financial investment by the state.

28 92987. The Regents of the University of California are  
29 requested to provide information about the Cal-BRAIN program  
30 through an Internet Web site, including a brief description of  
31 funded projects and activities.

32 92988. This chapter shall be implemented only to the extent  
33 that adequate funding for its purposes, as determined by the  
34 Regents of the University of California, is appropriated to the  
35 University of California in the annual Budget Act or other statute.